# **LISTING OF THE CLAIMS**

1. (Currently amended) A method of controlling a processor comprising consulting a table that lists a plurality of operation points defined by combinations each comprising: a) switching parallel availability of the number of a plurality of processing blocks formed inside a processor and in operation; and b) one of a plurality of operating frequencies available for use by switching, so as to switch between the operation points in accordance with a temperature.

#### 2. (Canceled)

- 3. (Currently Amended) The method of controlling a processor according to claim 1, comprising allocating tasks in consideration of the number of the <del>plurality of processing blocks</del> available in parallel, the number being determined task by task.
- 4. (Currently Amended) The method of controlling a processor according to claim 1, comprising allocating tasks to at least a processing block having a lowest temperature among the plurality of processing blocks.
- 5. (Currently amended) A method of controlling a processor comprising consulting a table that lists a plurality of operation points defined by combinations each comprising: a) switching between combinations of parallel availability of the number of a plurality of processing blocks formed inside a processor and in operation; and b) one of a plurality of operating frequencies available for use by switching, so as to switch between the operation points and an operating frequency by consulting a predetermined table.
- 6. (Currently amended) The method of controlling a processor according to claim 5, wherein the table describes lists the plurality of operation points in the order of processing performance for each of the combinations.

- 7. (Currently amended) The method of controlling a processor according to claim 6, wherein when the processor is predicted to exceed or exceeds a predetermined threshold in temperature, a combination an operation point yielding a smaller amount of heat generation than that of a combination an operation point selected currently is detected out of the combinations operation points, so that the combination operation point selected currently is switched to the combination operation point detected.
- 8. (Currently amended) The method of controlling a processor according to claim 7, wherein when a plurality of combinations operation points are detected, the combination operation point selected currently is switched to a combination operation point yielding maximum performance.
  - 9. (Currently amended) A processor comprising:
  - a plurality of processing blocks;
  - a sensor which measures a temperature; and
- a table that lists a plurality of operation points defined by combinations each comprising:

  a) the number of processing blocks in operation; and b) one of a plurality of operating

  frequencies available for use by switching; and
- a control unit which <u>consults the table and switches between the operation points</u> switches parallel availability of the plurality of processing blocks in accordance with the measured temperature.

# 10. (Canceled)

- 11. (Original) The processor according to claim 9, wherein the control unit allocates tasks in consideration of the number of the plurality of processing blocks available in parallel, the number being determined task by task.
  - 12. (Original) The processor according to claim 9, wherein the control unit allocates tasks

to at least a processing block having a lowest temperature among the plurality of processing blocks.

- 13. (Currently amended) A processor comprising:
- a plurality of processing blocks;
- a table which <u>lists a plurality of operation points defined by combinations each comprising</u>: a) the number of processing blocks in operation; and b) one of a plurality of <u>operating frequencies available for use by switching describes combinations of parallel availability of the plurality of processing blocks and an operating frequency</u>; and
- a control unit which consults the table and switches between the <u>combinations</u> <u>operation</u> <u>points</u> as appropriate.
- 14. (Currently amended) The processor according to claim 13, wherein the table describes <u>lists</u> processing performance for each of the combinations.
- 15. (Currently amended) The processor according to claim 14, wherein when the processor is predicted to exceed or exceeds a predetermined threshold in temperature, the control unit selects a combination an operation point yielding a smaller amount of heat generation than at present out of the combinations operation points, and switches to the combination operation point selected.
- 16. (Currently amended) An information processing apparatus comprising a processor which executes various tasks,

the processor including:

- a plurality of processing blocks;
- a sensor which measures a temperature; and
- a table that lists a plurality of operation points defined by combinations each comprising:

  a) the number of processing blocks in operation; and b) one of a plurality of operating

  frequencies available for use by switching; and

a control unit which <u>consults the table and switches between the operation points</u> switches parallel availability of the plurality of processing blocks in accordance with the measured temperature.

## 17. (Canceled)

- 18. (Original) The information processing apparatus according to claim 16, wherein the control unit allocates tasks in consideration of the number of the plurality of processing blocks available in parallel, the number being determined task by task.
- 19. (Original) The information processing apparatus according to claim 16, wherein the control unit allocates tasks to at least a processing block having a lowest temperature among the plurality of processing blocks.
- 20. (Currently amended) An information processing apparatus comprising a processor which executes various tasks,

the processor including:

a plurality of processing blocks;

a table which <u>lists a plurality of operation points defined by combinations each</u> comprising: a) the number of processing blocks in operation; and b) one of a plurality of <u>operating frequencies available for use by switching describes combinations of parallel</u> availability of the plurality of processing blocks and an operating frequency; and

a control unit which consults the table and switches between the eombinations operation points as appropriate.

21. (Currently amended) An information processing system comprising a processor which executes various tasks,

the processor including:

a plurality of processing blocks;

- a sensor which measures a temperature; and
- a table which <u>lists a plurality of operation points defined by combinations each</u> comprising: a) the number of processing blocks in operation; and b) one of a plurality of operating frequencies available for use by switching; and
- a control unit which <u>consults the table and switches between the operation points</u> switches parallel availability of the plurality of processing blocks in accordance with the measured temperature.
- 22. (Currently amended) The information processing system according to claim 21, wherein the control unit switches between combinations of the parallel availability and anoperating frequency the operation points in accordance with the temperature.
- 23. (Original) The information processing system according to claim 21, wherein the control unit allocates tasks in consideration of the number of the plurality of processing blocks available in parallel, the number being determined task by task.
- 24. (Original) The information processing system according to claim 21, wherein the control unit allocates tasks to at least a processing block having a lowest temperature among the plurality of processing blocks.
- 25. (Currently amended) An information processing system comprising a processor which executes various tasks,

the processor including:

- a plurality of processing blocks;
- a table which <u>lists a plurality of operation points defined by combinations each</u> comprising: a) the number of processing blocks in operation; and b) one of a plurality of <u>operating frequencies available for use by switching describes combinations of parallel</u> availability of the plurality of processing blocks and an operating frequency; and
  - a control unit which consults the table and switches between the combinations operation

Application No. 10/575,041 points as appropriate.

26. (Currently amended) A <u>processor readable storage medium having stored thereon a</u> processor control program comprising <u>instructions for:</u>

consulting a table that lists a plurality of operation points defined by combinations each comprising: a) the number of processing blocks formed inside a processor in operation; and b) one of a plurality of operating frequencies available for use by switching, and

\_switching parallel availability of a plurality of processing blocks formed inside a processor between the operation points in accordance with a temperature.

## 27. (Canceled)

- 28. (Currently Amended) The <u>processor readable storage medium processor control-program</u> according to claim 26, <u>further comprising instructions for allocating tasks in consideration of the number of the plurality of processing blocks available in parallel, the number being determined task by task.</u>
- 29. (Currently amended) The <u>processor readable storage medium processor control-</u> program according to claim 26, <u>further comprising instructions for allocating tasks</u> to at least a processing block having a lowest temperature among the plurality of processing blocks.
- 30. (Currently amended) A <u>processor readable storage medium comprising a processor</u> control program comprising instructions for:

consulting a table that lists a plurality of operation points defined by combinations each comprising: a) the number of processing blocks formed inside a processor in operation; and b) one of a plurality of operating frequencies available for use by switching, and

switching <u>between the operation points</u> <u>between combinations of parallel availability of a plurality of processing blocks formed inside a processor and an operating frequency by consulting a predetermined table.</u>

- 31. (Previously presented) The method of controlling a processor according to claim 3, comprising allocating tasks to at least a processing block having a lowest temperature among the plurality of processing blocks.
- 32. (Previously presented) The processor according to claim 11, wherein the control unit allocates tasks to at least a processing block having a lowest temperature among the plurality of processing blocks.
- 33. (Previously presented) The information processing apparatus according to claim 18, wherein the control unit allocates tasks to at least a processing block having a lowest temperature among the plurality of processing blocks.
- 34. (Previously presented) The information processing system according to claim 23, wherein the control unit allocates tasks to at least a processing block having a lowest temperature among the plurality of processing tasks.
- 35. (Currently amended) The <u>processor readable storage medium processor control-</u> program according to claim 28, <u>further comprising instructions for</u> allocating tasks to at least a processing block having a lowest temperature among the plurality of processing tasks.